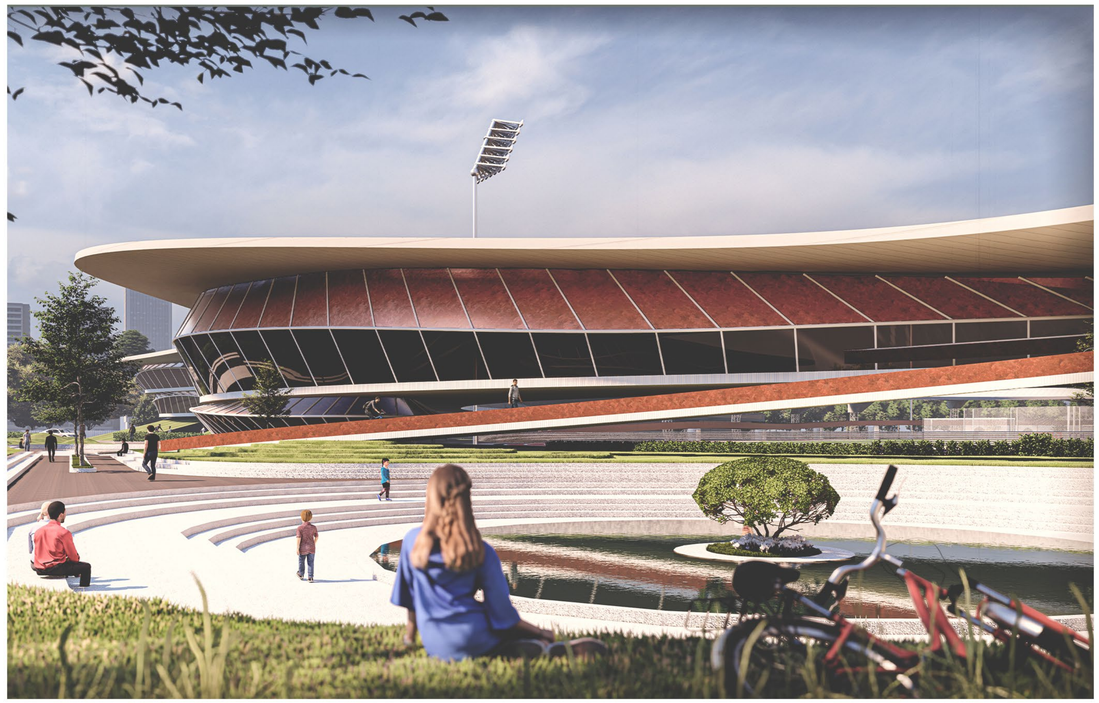
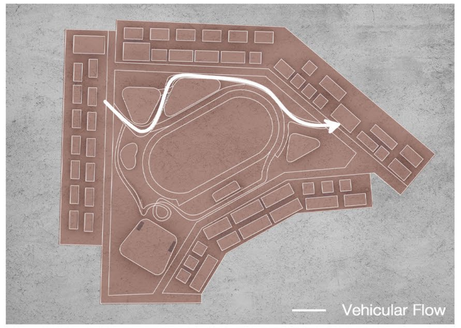
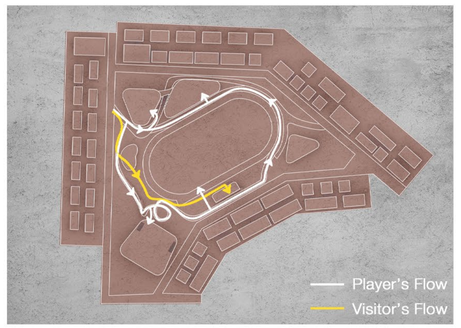
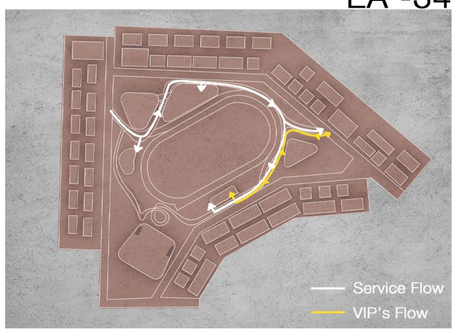
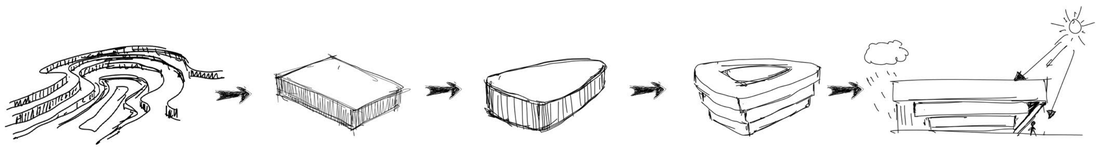










Inspiration from contours
Coal Mines in layers

Placing Spaces on Site

Shaping building evelope to reduce heat gain

Added depth to each floor; looks similar to an inverted ore.

Resulting form sturdy and excellent for shading purposes

KIOM Stadium

India is known for its unity within diversity. We find reasons to bind ourselves together, despite the diversity. One such reason being sports. During a match, we forget everything, cheer together, and play together, for our team. The spectators are welcomed with street lamps encompassing their journey through their soft light and ambience. We wish to portray Jharkhand's beauty- its iron mines- and unite users through its design. The facade, with its metallic, rustic texture is reminiscent of the mines. The form follows the contours of the mines, thus welcoming and binding them. Stacking has been done according to climatic considerations. The circulation pathways have been designed in a loop to complete the circle of unity within the sports hall, thus enhancing users' experience.

1. After analysing the site and zoning, the running track was placed taking into consideration the orientation from relevant case studies and bylaws.

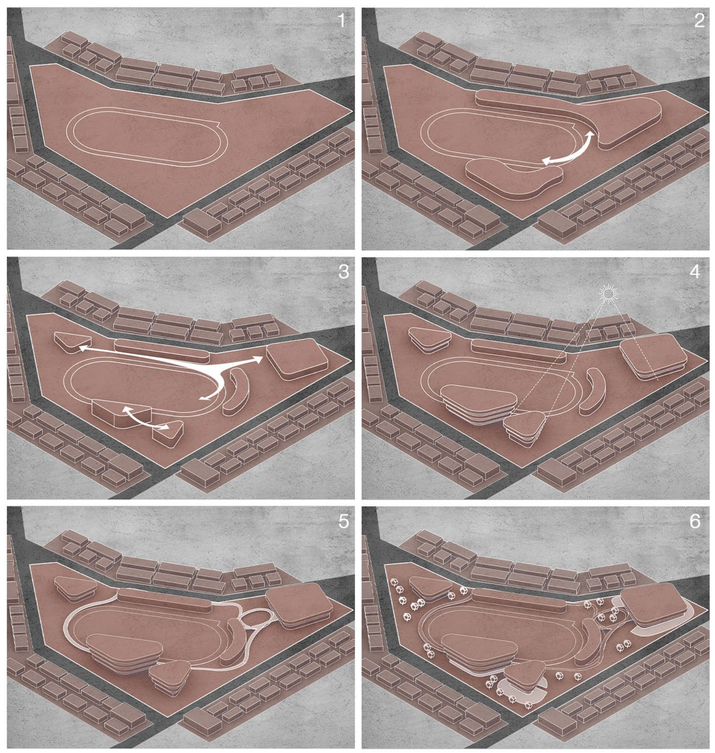
2. The broad category mass is been divided into two main zone of private and visitors zone.

3. The major private block is divided into dorms/ residential zone, medical and administration zone and service zone. The public zone is divided into the indoor stadium, main gallery and vip gallery units.

4. According to the concept development the blocks have been given the shape inspired of the iron mines and different shading strategies.

5. Technically taking into consideration the flow of different users, the paths were segregated creating a loop of ramp corridor all around main athletic stadium as our main attraction and enhancing the experience of users.

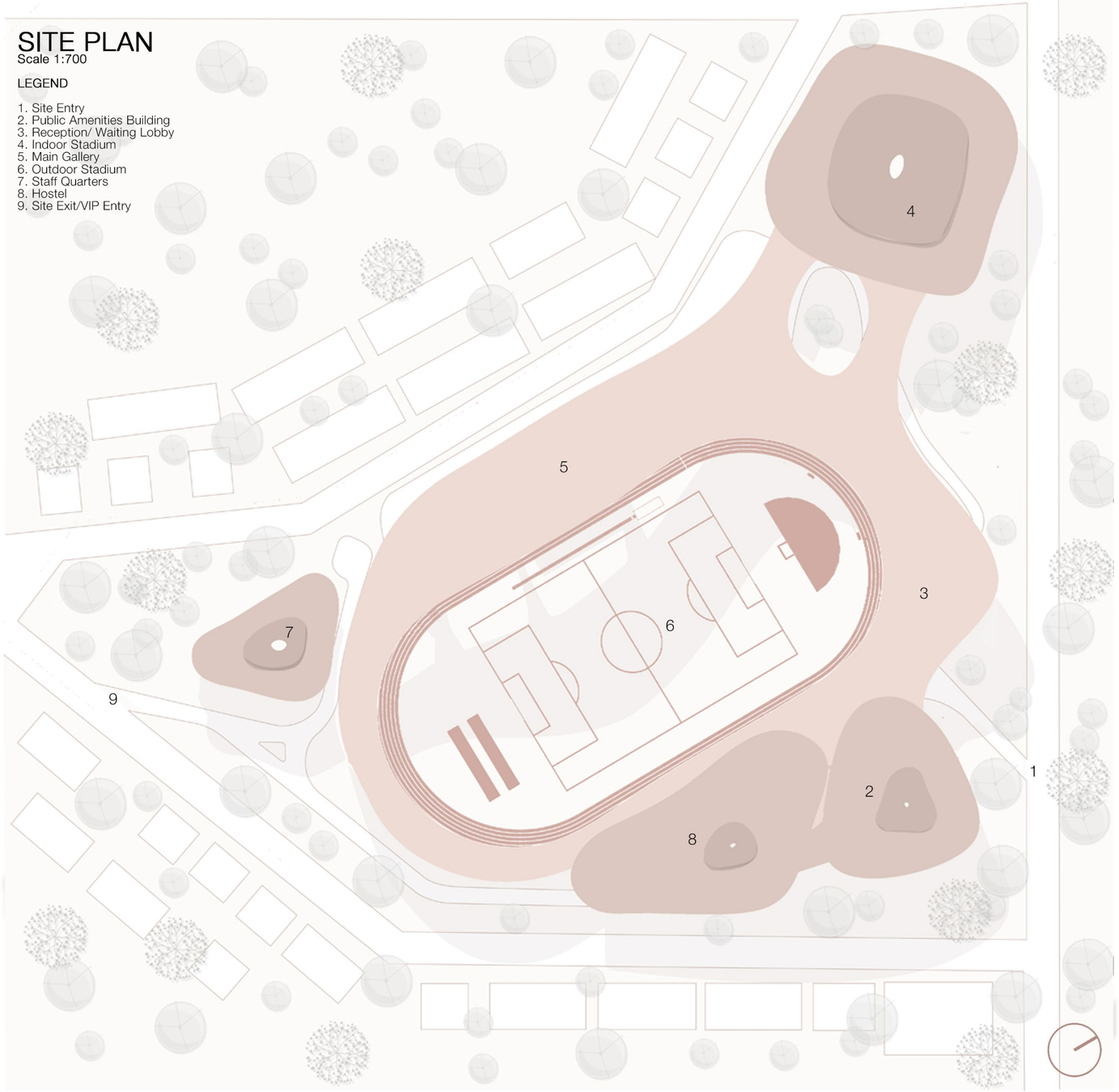
6. At last introducing contour style landscaping creting calm and secure plaza for the players and visitors, different undulation in the site creates the buffer zone between the main building and access road.



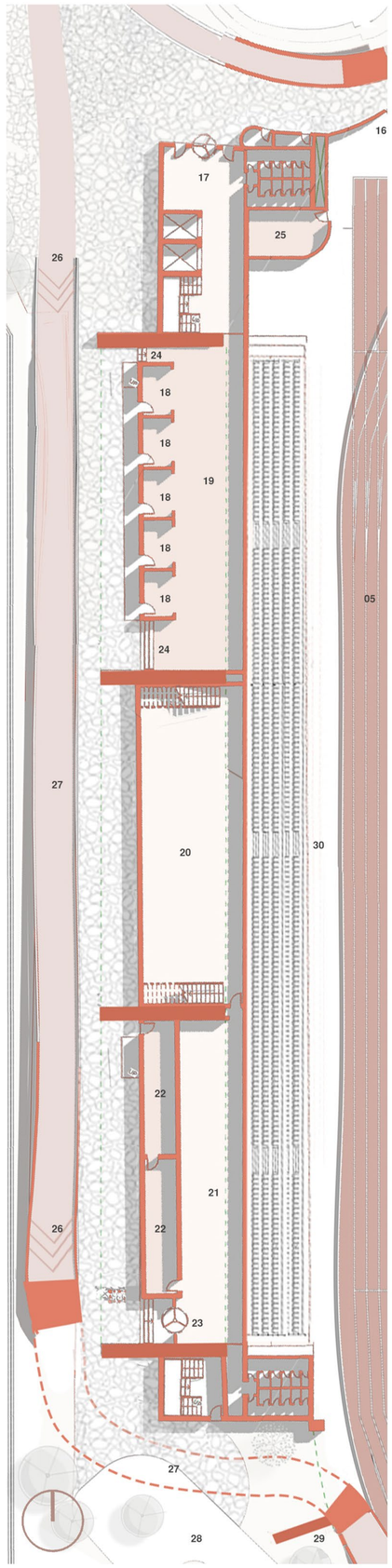
SITE PLAN
Scale 1:700

LEGEND

1. Site Entry
2. Public Amenities Building
3. Reception/ Waiting Lobby
4. Indoor Stadium
5. Main Gallery
6. Outdoor Stadium
7. Staff Quarters
8. Hostel
9. Site Exit/VIP Entry



MAIN GALLERY (2)
Scale 1:200




CYCLE TRACK WITH COLUMNS

LEGEND GROUND FLOOR

MAIN BUILDING (2)
16. Player's Entry
17 Visitor's Entry
18 Food stalls
19 Non-AC food court
20 VIP Waiting area
21 VIP AC restaurant
22 Kitchen
23 VIP Entry/Exit
24 Visitor's Exit

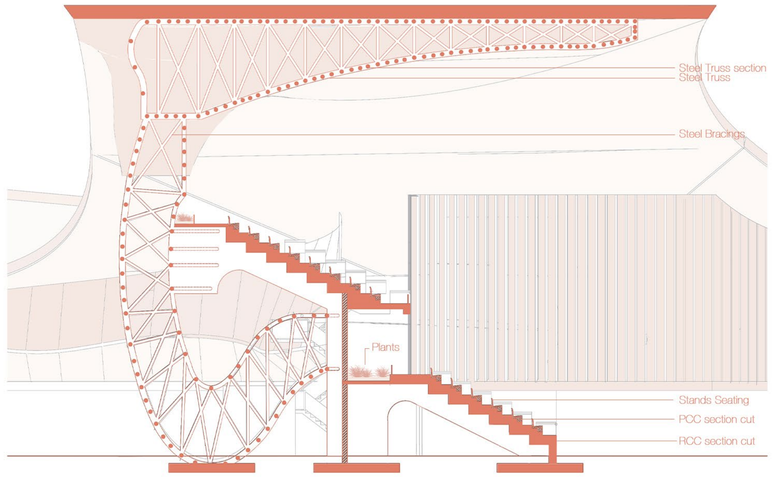
MAIN BUILDING (2)
25 Janitor's Room
26 Ramp up (cycle track)
27 Cycle track
28 Service Vehicle turnabout
29 Coulmn along elevated Cycle Track
30 Visitor's seating (stands)

MAIN GALLERY (1)
Scale 1:200

LEGEND GROUND FLOOR

MAIN BUILDING (1)
01. Entrance
02. Vertical Circulation
03. Common Lobby
04. Steel railing separation from track
05.Running Track
06. Cricket Pitch
07. Cycle Track
08. Ramp up (cycle track)

MAIN BUILDING (1)
09. Landscape
10. Paved Pathway
11. Cafe
12. Player's Lobby
13. Common washbasins
14. Boy's changing area
15. Girl's Changing area
16. Player's Entry



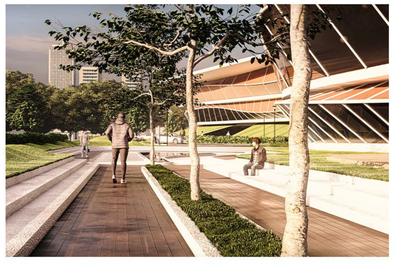
MAIN GALLERY SECTION
Scale 1:150

The same column design is repeated along the stands and the cycle track as well. Going around the running track. Access to the running track is blocked using steel railing lined with sports motifs along with interspersed landscaping. The column is extensively made using steel, then covered using GFRC (glass fibre reinforced panels) to improve stability and give a cleaner finish.

Landscaping Features

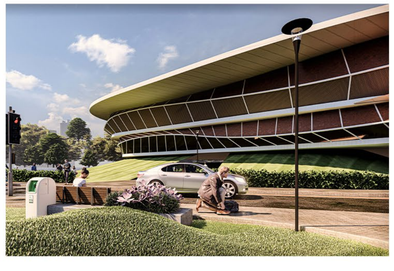
Water Sprinklers and fountains are used in front landscape to maintain cooling micro environment and to use reflection

The Exterior boundry walls are being installed with different sport action motifs made of steel Plates.



Plantation of trees in incorporated planter box within the front landscaping with wooden and pebble walkways

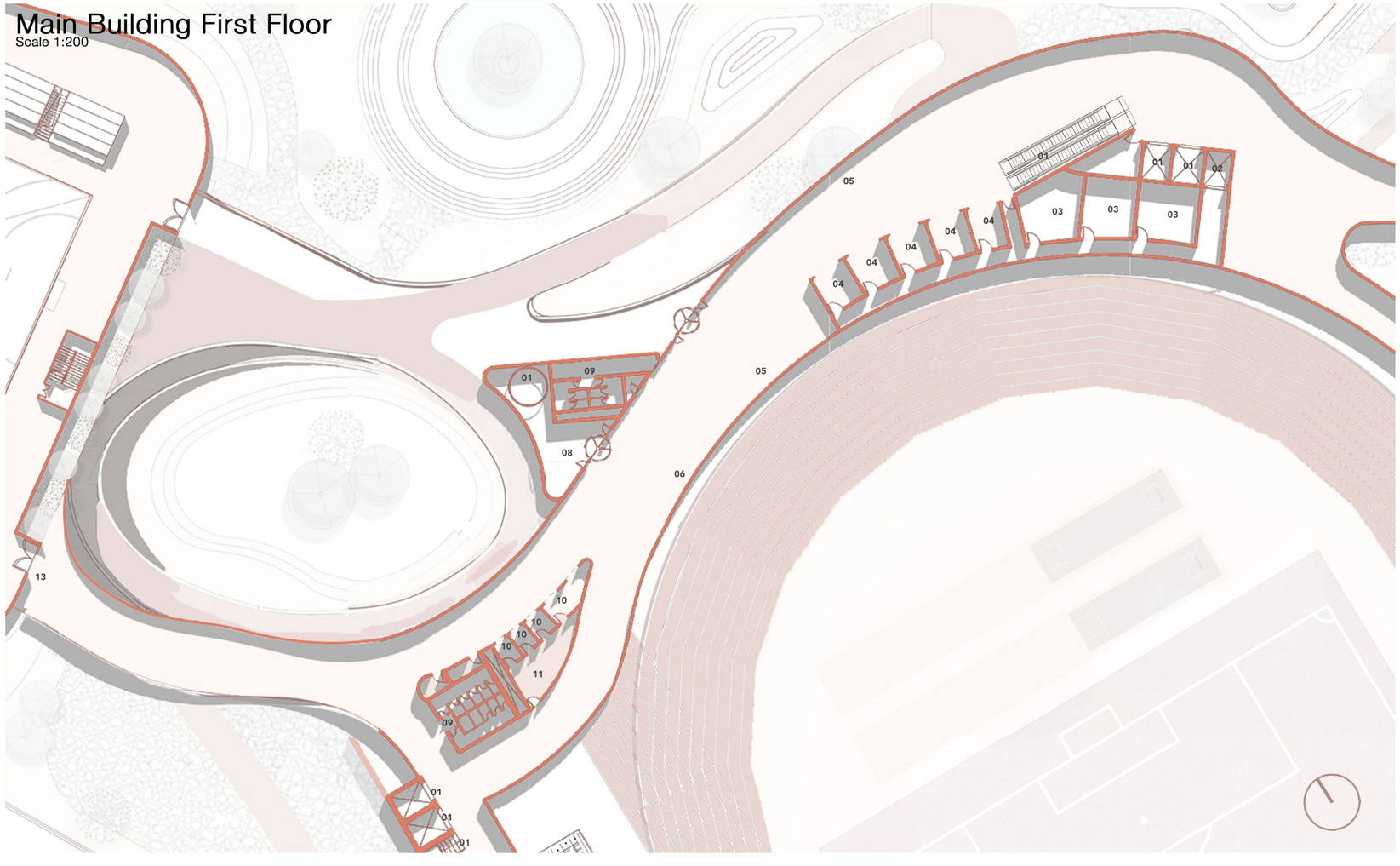
Distinguised cycle track all arround the stadium along with walkways and intermediate sitting zones for views.



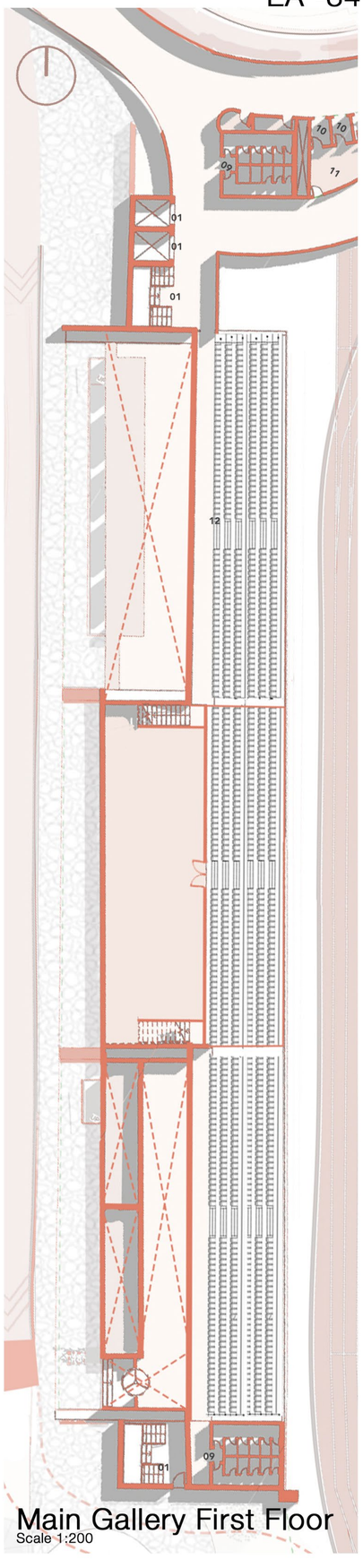
Proper street lamps and trafic lights has been installed for proper navigation and waste bins are also installed along the

LEGEND

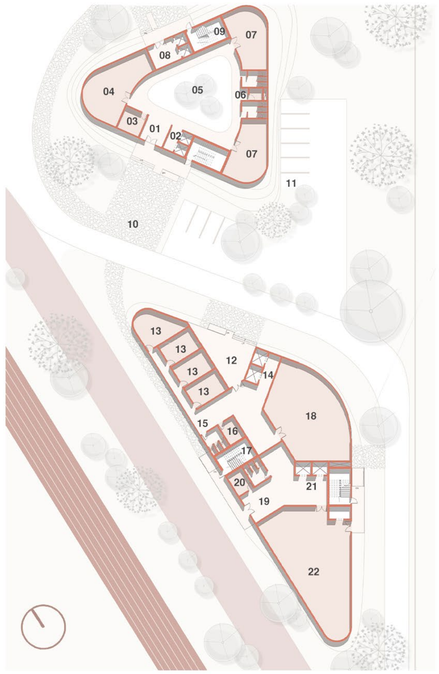
01. Vertical Circulation
02. Dum elevator
03. Kitchen
04. Food stalls
05. Dining Space
06. Viewing deck
07. Storage
08. Cafeteria
09. Washroom
10. Ticket Counter
11. Ticketing Office
12. Viewing gallery
13. Indoor stadium entry



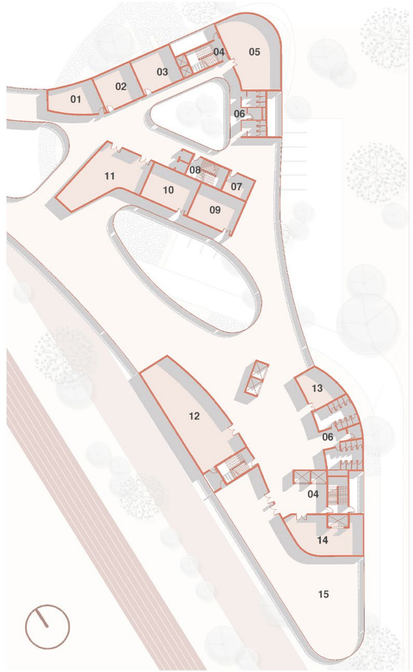
Main Building First Floor
Scale 1:200



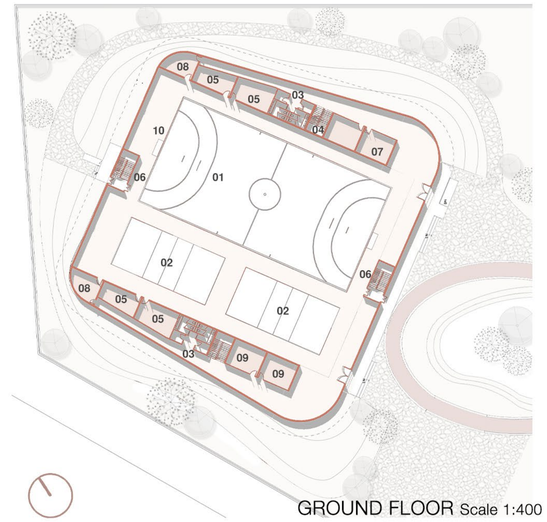
Main Gallery First Floor
Scale 1:200



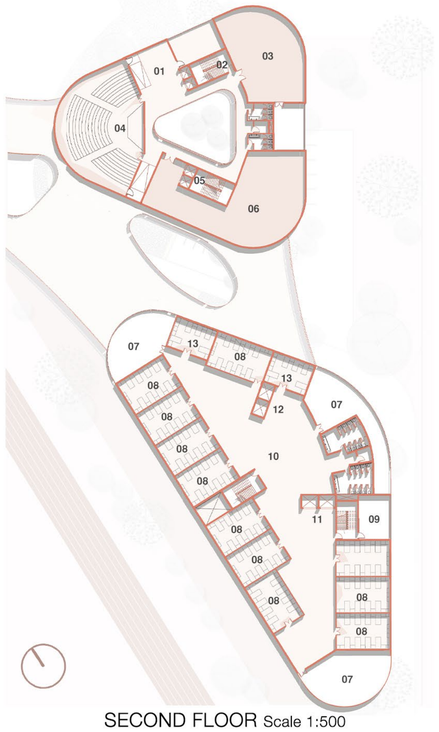
GROUND FLOOR Scale 1:500



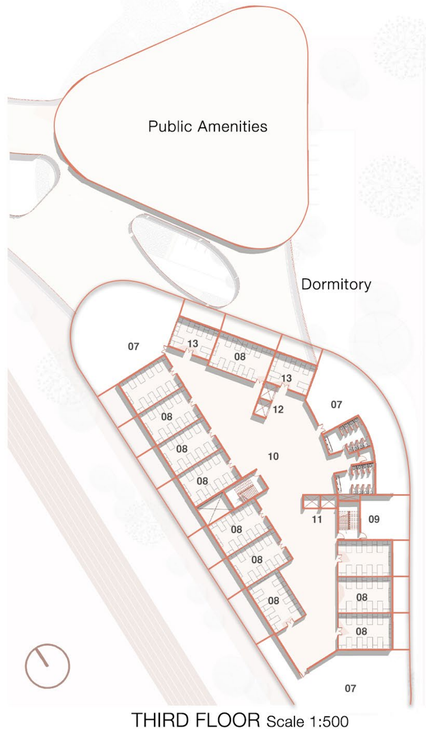
FIRST FLOOR Scale 1:500



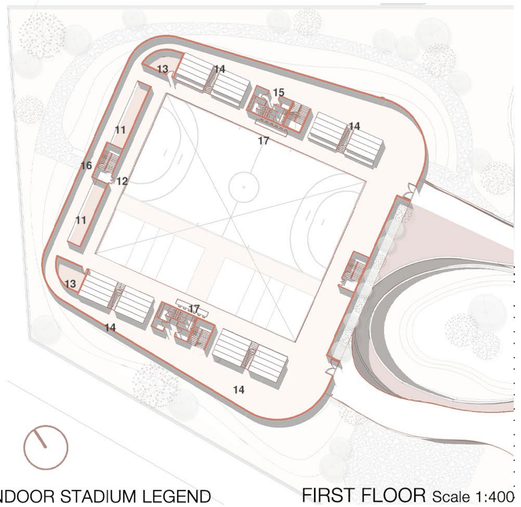
GROUND FLOOR Scale 1:400



SECOND FLOOR Scale 1:500



THIRD FLOOR Scale 1:500



FIRST FLOOR Scale 1:400

INDOOR STADIUM LEGEND

GROUND FLOOR

01. Handaball Court
02. Volleyball Court
03. Toilet Block
04. Vertical Circulation
05. Changing Room
06. Fire Staircase
07. Electrical Room
08. Store Room
09. Maintenance Room
10 Score Board

FIRST FLOOR

11. Food Stalls
12. Fire Exit
13. Store Room
14. Audience Seating Area
15. Washroom
16. Viewing Deck
17. Judge Seating
18. Entry / Exit

Apart from providing an appropriate indoor space for various sports activities, a modern indoor athletic complex serves as a multi-purpose recreational facility and lively community center as well

LEGEND GROUND FLOOR

PUBLIC AMENITIES BUILDING
01. Entrance Lobby
02. Vertical Circulation
03. Nurse's Room
04. Emergency Room
05. Central Atrium
06. Washroom
07. Medical Therapy Rooms
08. Auditorium Entance Lobby
09. Fire Staircase
10. Paved Entryway
11. Parking (P1)

DORMITORY BUILDING
12. Boy's Hostel Entry
13. Admin Offices / Counters
14. Lift Lobby (Boys)
15. Alternate Entry
16. Reception
17. Fire Staircase
18. Common Room
19. Girls Acco. Entrance
20. Reception
21. Lift Lobby (Girls)
22. Kitchen & Storage

LEGEND FIRST FLOOR

ADMIN AND DORMITORY
01. Admin Office
02. Registration Room
03. Admin Lobby
04. Fire Staircase
05. Therapy Room
06. Toilets
07. Staff Room
08. Fire Staircase
09. Classroom 1
10. Classroom 2
11. GYM
12. Recreation Room
13. Storage
14. Kitchen
15. Common Dining Area

LEGEND SECOND & THIRD FLOOR

01. Auditorium Waiting Area
02. Fire Staircase
03. Finance Offices
(minimal interaction)
04. Auditorium
05. Circulation Core
06. Library
07. Common Balcony
08. Dorm Roms (8 sharing
09. TV Room
10. Lobby
11. Lift (Girls)
Blocked acess for third floor
12. Lift (Boys)
Blocked acces for second floor
13. Dorm Rooms (6 sharing)

NORTH ELEVATION Scale 1:600

East Elevation Scale 1:600

West Elevation Scale 1:600

Energy Efficient Design

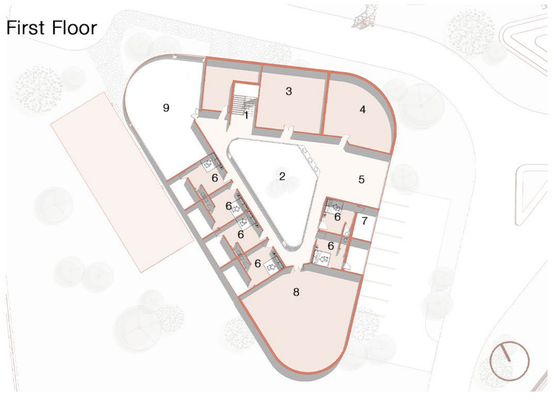
Solar Cells to reduce Electricity Consumption

Cieling Gap to enhance indoor ventilation

Courtyard to improve indoor natural lighting

Second Floor

First Floor



STAFF DORMITORY PLANS Scale 1:400

LEGEND GROUND FLOOR

1. Entry
2. Waiting lounge
3. Atrium
4. Dining Hall
5. Kitchen
6. Toilet
7 Staff Room
8. Dormitory
9. Vertical Circulation
10. Electrical Room
11. Pump Room
12. HVAC Room
13. Storage

LEGEND FIRST FLOOR

1. Vertical Circulation
2. Cut-Out
3. Dining
4. Common Hall
5. Viewing Deck I
6. VIP Room
7. Balcony
8. Dormitory
9. Viewing Deck II
10. Store Aream

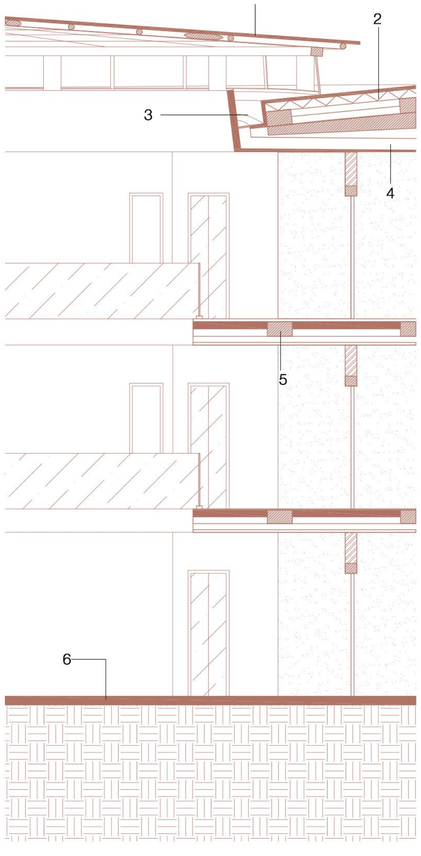
RAINWATER GUTTER SECTION

Scale 1:50

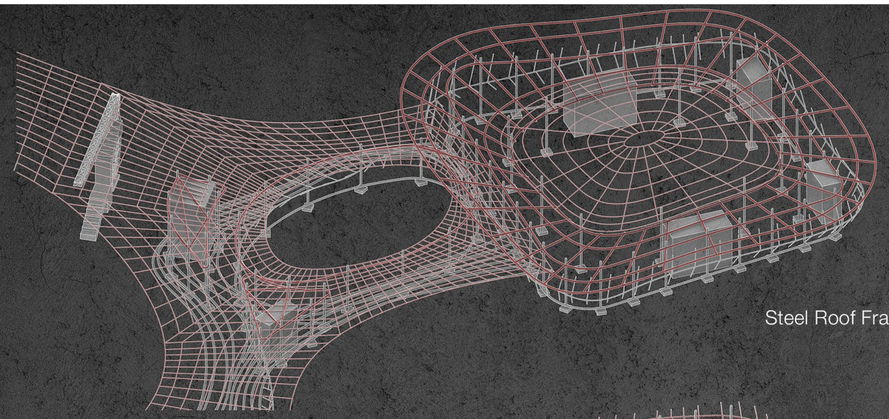
LEGEND

1. PTFE Sheets
2. Triss supporting concrete roof Panel
3. Rainwater Gutter
4. PVC Pipe collecting rainwater
5. Steel Beam
6. Rcc Slab

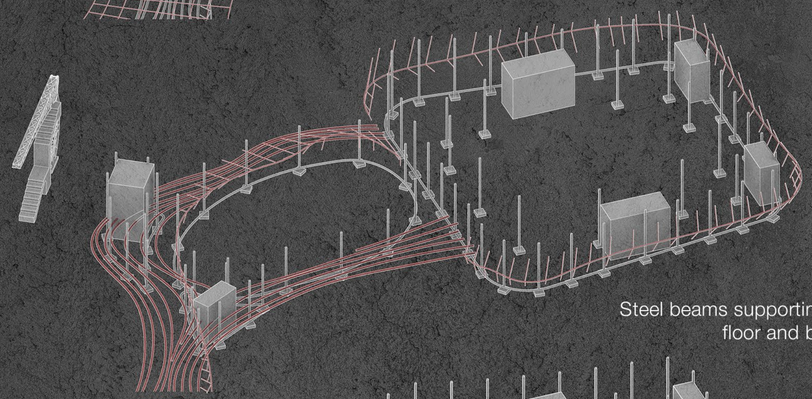
Rainwater harvesting (RWH) is the practise of collecting and storing rainwater as opposed to letting it flow off. Rainwater is gathered from a surface that resembles a roof and directed to a container with percolation, such as a tank, cistern, deep pit , aquifer, or reservoir where it seeps down and replenishes the ground water table. With the aid of nets or other instruments, dew and fog can also be gathered.



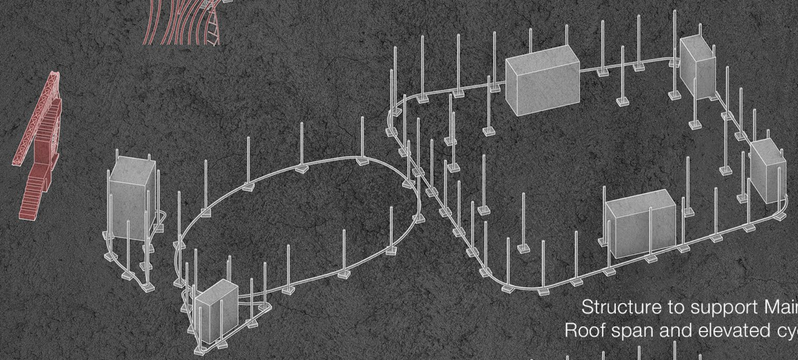
STRUCTURE DETAILS



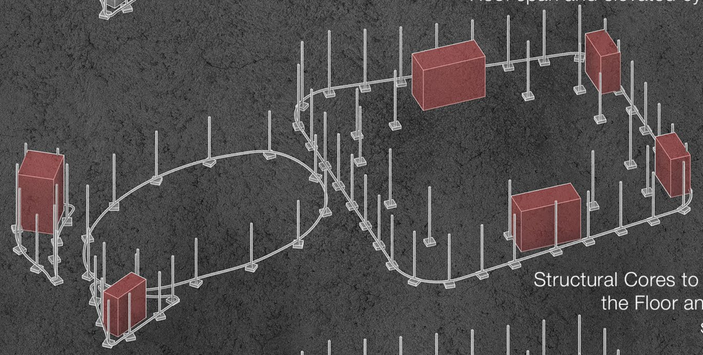
Steel Roof Frames



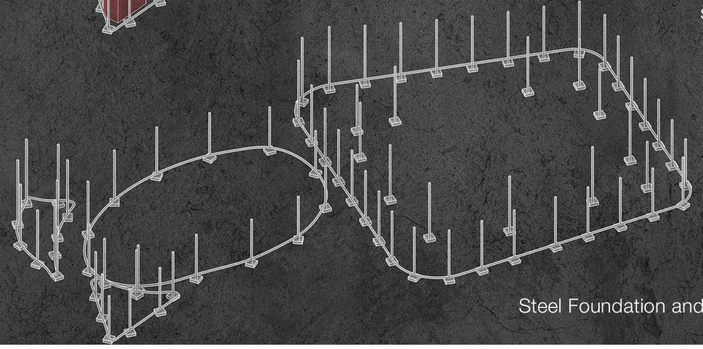
Steel beams supporting the floor and bridge



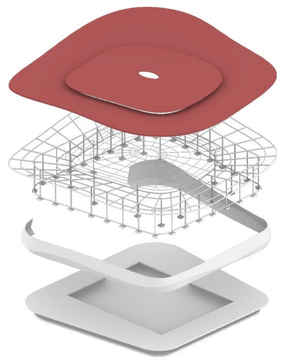
Structure to support Main Gallery Roof span and elevated cycle track



Structural Cores to support the Floor and bridge structure

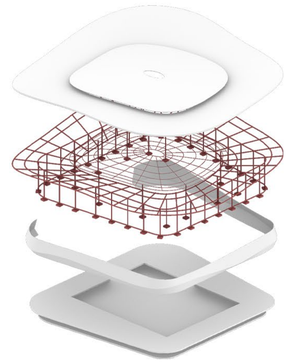


Steel Foundation and Column



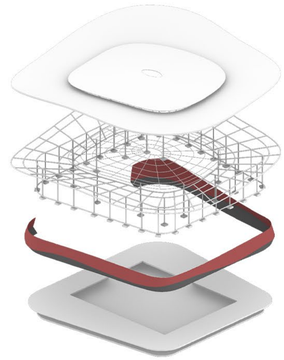
PTFE Sheets

PTFE sheets protect arenas from extreme weather conditions by reducing the overall indoor temperature, while also aesthtically pleasing.



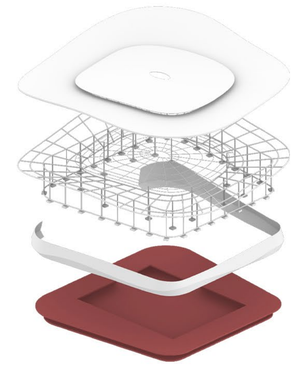
Steel Structure

Steel is very flexible for building structure as it's easily mouldable, bendable and durable.



Cast Iron Facade Panel

Steel is very flexible for building structure as it's easily mouldable, bendable and durable.



Reinforced Concrete Floor

The RCC Slab is supported by steel Frames

South Elevation Scale 1:600